



DLP Driver License Photo Query

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Document Control

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1.0	10-05-2004	First release
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Initial document

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1 Introduction

1.1.1 This Document

A desire/need exists to obtain Driver License photos via XML/web services. This document describes the web services, XML specifications and transactions for obtaining Driver License photos and signatures.

1.1.2 Objectives

The main objectives of this document are:

- To provide a concise list of the XML elements to be used to retrieve Driver License photos.
- To describe the software based specifications required for the Architecture.
- To define the transactions to be submitted.

1.1.3 Audience of this Document

The application's representatives, the Local Law Enforcement users and development teams, and vendors of systems accessing UCJIS for law enforcement agencies comprise the main audience of this document.

1.1.4 Related Documents

Doc. Type	Title	Reference	Signature Date	Status
Word document	UCJIS XMLConduit Web Service	Mike Sadler	10/13/2005	V.1
Web page	http://it.ojp.gov/jxdd/	Global Justice XML Specifications		V.3.0
Excel spreadsheet	Jxdds-3.0.xls	Global Justice XML elements		V.3.0
Word document	DPS Encryption Strategy within XML Documents	Mike Sadler	07/13/2005	V.1.1

2 Architecture

The architecture herein described supports obtaining Driver License photos from the Utah Criminal Justice Information System (UCJIS). Data is to be shared using standard web services/SOAP message formatting over HTTPs (SSL). The body of SOAP messages contains XML documents pertaining to messages.

Web services are designed to overcome the problems associated with proprietary network protocols. A core set of specifications that together make up Web Services are XML, SOAP, and WSDL. The Extensible Markup Language (XML) is a W3C standard for defining data using a simplified syntax similar to the Standard Generalized Markup Language (SGML). XML is fast becoming the de facto standard for defining data and documents used in Internet-based transactions, and it is used to define SOAP.

Simple Object Access Protocol (SOAP) is a specification that incorporates the most important features of the Distributed Component Object Model (DCOM) and Remote Method Invocation (RMI) into a light-weight XML message that can be used to transmit data over HTTP. SOAP, however, is not limited to just HTTP; it can be used in combination with a variety of protocols, depending upon the business requirements.

Web Services Description Language (WSDL) is an XML format for describing Web Services, as a set of endpoints – or ports – which operate on messages sent over the network. This document assumes that the ongoing reader already has a sufficient background in the web service technologies and implementation options available in his or her development tool(s) of choice.

The specifications are comprised of standards-based protocols and messaging technologies that constitute a best-business-practices solution. At the core of the framework is Extensible Markup Language (XML). Within the framework, XML becomes the messaging format.

The integration framework packages compliant XML within messages that are distributed to the destination node (endpoint) for processing. The messaging infrastructure is comprised of the Simple Object Access Protocol (SOAP) over the Hyper-Text Transfer Protocol (HTTP). To encrypt the data as it traverses the state wide area network (WAN) or internet, secure socket layer (SSL) will be used. Certain elements (logon, password) within the XML document may also be further encrypted.

To query the DPS system, a properly formatted XML document encapsulated in SOAP will be sent to the DPS web services server. The DPS web services server will determine what type of transaction is being performed by evaluating the attribute values of type and class in the DocumentDescriptor element. Logical branching will take place depending on the values and the appropriate method invoked.

3 Node Framework Implementation

To implement an XML Driver License Photo (DLP) query, the following requirements should be met:

- The information to be shared must be formatted according to the XML specifications listed in this document.
- To send requests, a requesting system should have the ability to invoke the web service method over HTTPs on a remote system to pass properly formatted XML as a string, encapsulated in a SOAP envelope, and receive string responses.

4 Transaction Descriptions

Below is transaction descriptions/flow:

To query the UCJIS system for Driver License Photo information, a properly formatted XML document will be sent to the DPS web services server. Searches can only be performed by Driver License (DL) number.

5 Response Codes

The ResponseStatus codes used in UCJIS XML documents are roughly based on HTTP 1.1 Status Codes. A normal success response will contain a 200 ResponseStatusCode and "OK" ResponseStatusDescription.

Success 2xx

- 200 OK**
- 201 Created
- 202 Accepted
- 203 Non-Authoritative Information
- 204 No Content
- 205 Reset Content
- 206 Partial Content

Redirection 3xx

- 300 Multiple Choices
- 301 Moved Permanently
- 302 Found
- 303 See Other
- 304 Not Modified
- 305 Use Proxy
- 306 (Unused)
- 307 Temporary Redirect

Client Error 4xx

- 400 Bad Request
- 401 Unauthorized
- 402 Payment Required
- 403 Forbidden
- 404 Not Found**
- 405 Method Not Allowed
- 406 Not Acceptable
- 407 Proxy Authentication Required
- 408 Request Timeout
- 409 Conflict
- 410 Gone
- 411 Length Required
- 412 Precondition Failed
- 413 Request Entity Too Large
- 414 Request-URI Too Long
- 415 Unsupported Media Type
- 416 Requested Range Not Satisfiable
- 417 Expectation Failed

Server Error 5xx

- 500 Internal Server Error

Appendix A: Transaction XML Specifications

Below are XML elements to be used to obtain Driver License photo information.

(Notes: Not all elements may be available to return. Whitespace (CR/LF, tabs, etc.) are included in this document for readability but should not be transmitted.) Empty elements should not be transmitted unless the fact they are empty is relevant.

Element	Min-Max	Comments
<code>udps:UDPSXML</code>	1 - 1	Root element
<code>-udps:DocumentDescriptor</code>	1 - 1	Describes the transaction type and class of transaction. This element is used in all DPS transactions. Logical branching can take place when initially parsing the XML to invoke different processing methods based on the type and class. Attributes for this element include: "type" - mandatory, the type of transaction that is being executed. "class" - mandatory - within the type of transaction, what kind of action is to be performed. "authenticator" - optional, used by the DPS server to decide what authenticating functions should be performed. Default value for this attribute if it does not exist is "UCJIS". "routingCode" - mandatory, used to select which system should service the database functions for this transaction. Options are: "L" - local, "1" - NCIC, "2" - III, "6" - NICS, "M" - NLETS.
<code>@type</code>	1 - 1	The type of transaction that is being executed. Values for this transaction: DLP, DLPResponse
<code>@class</code>	1 - 1	Within the type of transaction, what kind of action is to be performed. Values: "DriverPhotoSearch", "DriverMultiplePhotoSearch".

@authenticator	1 - 1	Used by the DPS server to decide what authenticating functions should be performed. Value: "UCJIS"
@routingCode	1 - 1	Used to select which system should service the database functions for this transaction. Value: "L"
-udps:Header	1 - 1	Parent element for administrative elements.
--udps:Version	1 - 1	What version of specifications are being used in this XML document. Currently at 3.0.
--udps:System	1 - 1	Host computer system name that is conducting the transaction. Value is assigned by DPS in conjunction with the agency. Currently using the IP address of the host system.
---j:ID	1 - 1	Identifier.
--udps:TransactionID	1 - 1	A unique identifier for this transaction
---j:ID	1 - 1	Identifier.
--udps:Submitter	1 - 1	Transaction specific. Person that is submitting the transaction
---udps:UDPSAgency	1 - 1	DPS assigned agency identifier of person that is submitting the transaction.
----j:ID	1 - 1	Identifier.
---udps:UDPSAuthentication	1 - 1	Parent element for logon ID and password.
----udps:UDPSLogon	1 - 1	DPS assigned logon ID. Contains two attributes: "encrypted" - mandatory, value is "true", indicates that the element value of the logon ID is encrypted. "source" - mandatory, names the seed element(s) to be used to encrypt the data using the DPS encryption algorithm.
@encrypted	1 - 1	Indicates that the element value of the logon ID is encrypted. Value: "true"
@source	1 - 1	Names the seed element(s) to be used to encrypt the data using the DPS encryption algorithm

----udps:UDPSPassword	1 - 1	Password for this user. Contains two attributes: "encrypted" - mandatory, value is "true", indicates that the element value of the password is encrypted. "source" - mandatory, names the seed element(s) to be used to encrypt the data using the DPS encryption algorithm.
@encrypted	1 - 1	Indicates that the element value of the password is encrypted. Value: "true"
@source	1 - 1	Names the seed element(s) to be used to encrypt the data using the DPS encryption algorithm
--udps:InitiatingAgency	1 - 1	Transaction specific. The agency that is initiating the transaction.
---j:Agency	1 - 1	Parent element for submitting agency information.
----j:OrganizationORIID	1 - 1	ORI of sending agency.
-----j:ID	1 - 1	Identifier.
--udps:Destinations	1 - 1	Parent element for the intended destination(s) of the transaction.
---udps:Destination	1 - 1	Transaction specific. Parent element for an intended destination of the transaction.
----j:Agency	1 - 1	Parent element for destination agency information.
-----j:OrganizationID	1 - 1	An identifier of the submitting agency. For example, this could contain a State code.
-----j:ID	1 - 1	Identifier. For this transaction: UT
-udps:TransactionParameters	1 - 1	Parent element containing the XML specific for each transaction.
--j:Subject	1 - 1	Details about the subject of the search. Searches can be performed on one of: DL number, SSN or name/DOB.
---j:PersonAssignedIDDetails	1 - 1	Details about assigned ID numbers.
----j:PersonDriverLicenseID	1 - 1	Details about the Driver License Number.
-----j:ID	1 - 1	Identifier.
-----j:IDJurisdictionCode	1 - 1	State that issued the Driver License = UT

-udps:Response	Conditional 1 - 1	Details about a response to a transaction. Required (and only available) when responding to a message.
--udps:ResponseDate	1 - 1	Date of response - CCYY-MM-DD
--udps:ResponseTime	1 - 1	Time of response - HH:MM:SS
--udps:ResponseStatus	1 - 1	Details about the response status. Parent element for status code and description.
---udps:ResponseStatusCode	1 - 1	A response code roughly based on HTTP 1.1 Status Codes. A normal success response will contain a 200 ResponseStatusCode and "OK" ResponseStatusDescription.
---udps:ResponseStatusDescription	1 - 1	A response description roughly based on HTTP 1.1 Status CodesDescriptions. A normal success response will contain a 200 ResponseStatusCode and "OK" ResponseStatusDescription.
--udps:JusticeXML	Conditional 1 - 1	Details containing response XML. Required (and only available) on all responses. If an error or "Not Found" condition, the element will be empty.
---j:Person	Conditiona l 1 - 1	Describes inherent and frequently associated characteristics of a person. Only available on successful response.
----j:PersonName	1 - 1	A name by which a person is known.
-----j:PersonGivenName	1 - 1	A first name of a person.
-----j:PersonMiddleName	0 - 1	A middle name of a person. Attribute of personNameInitialIndicator="true" if value represents the first letter or initials of a persons name; false otherwise.
@personNameInitialIndicator	0 - 1	Contains the value "true" if element contains the initial. The attribute should be nonexistent, blank or "false" otherwise.
-----j:PersonSurName	1 - 1	A last name or family name of a person.
-----j:PersonSuffixName	0 - 1	
----j:Residence	1 - 1	Details about the place in which a person lives.

-----j:LocationAddress	1 - 1	Details about a postal address for a location. Attribute of lastUpdatedDate indicates the last time the address for this person was updated.
@lastUpdatedDate	0 - 1	Contains the date that the address was last changed.
-----j:LocationStreet	1 - 1	Details about a street.
-----j:StreetFullText	1 - 1	A complete street reference, e.g., "123 Main Street NW".
-----j:LocationCityName	1 - 1	A name of a city or town.
-----upds:LocationCityCode	1 - 1	A code identifying a city.
-----j:LocationCountyCode	1 - 1	A code identifying a county.
-----j:LocationStateCode.ncicRES	1 - 1	A code identifying a state.
-----j:LocationPostalCodeID	1 - 1	A zip code or postal code.
-----j:ID	1 - 1	Identifier.
-----j:LocationPostalCodeExtensionID	0 - 1	An extension of a zip code or postal code.
-----j:ID	1 - 1	Identifier.
----j:PersonBirthDate	1 - 1	A date a person was born.
----j:PersonPhysicalDetails	1 - 1	A set of details about the physical appearance of a person.
-----j:PersonHeightMeasure	1 - 1	A measurement of the height of a person.
-----j:PersonWeightMeasure	1 - 1	A measurement of the weight of a person.
-----j:PersonEyeColorCode	1 - 1	A code identifying the color of a person's eyes.
-----j:PersonHairColorCode	1 - 1	A code identifying the color of a person's hair.
-----j:PersonSexCode	1 - 1	A code identifying the gender or sex of a person.
----j:PersonAssignedIDDetails	1 - 1	A set of details about identifications issued to a person.
-----j:PersonOtherID	1 - 1	Information about an identifier with a type that is not explicitly defined in the standard that refers to a person within a certain domain, e.g., state ID cards or other non-license and non-fingerprint based IDs. This element will be returned if the photo is associated with an ID card.
-----j:ID	1 - 1	Identifier.

-----j:IDTypeText	1 - 1	A type of identifier assigned. Value=ID Card
-----j:PersonDriverLicenseID	0 - 1	Information about an identifier used to refer to a specific person who has obtained a driver's license. Sometimes referred to as driver license number, DLNumber. This element will be returned if the photo is associated with a Driver License.
-----ID	1 - 1	Identifier.
-----j:PersonBiometricDetails	0 - 1	A set of details about measurable biological or behavioral characteristics, which can reliably recognize the identity, or verify the claimed identity, of a person.
-----udps:PersonDigitalImagesAvailableQuantity	1 - 1	Number of images available for this person.
-----udps:PersonDigitalImagesReturnedQuantity	1 - 1	Number of images returned for this query.
-----j:PersonDigitalImage	1 - 8	A photograph or image of a person in a digital format.
-----j:BinaryObject.Base64	1 - 1	A binary encoding of data, e.g., a binary encoding of a picture, photo, image, graphic, sound, or video.
-----j:BinaryFormatText	1 - 1	A format of a binary object, e.g., "image/jpeg".
-----j:BinarySizeValue	1 - 1	A size of a binary object in kilobytes.
-----j:BinaryCaptureDate	1 - 1	A date on which the data represented by the binary object is captured, e.g., an image taken or an audio recorded.
-----j:PersonDigitizedSignatureImage	1 - 8	An image of a person's handwritten signature.
-----j:BinaryObject.Base64	1 - 1	A binary encoding of data, e.g., a binary encoding of a picture, photo, image, graphic, sound, or video.
-----j:BinaryFormatText	1 - 1	A format of a binary object, e.g., "image/jpeg".
-----j:BinarySizeValue	1 - 1	A size of a binary object in kilobytes.
-----j:BinaryCaptureDate	1 - 1	A date on which the data represented by the binary object is captured, e.g., an image taken or an audio recorded.

A.1 DL Photo Query by DL Number

List of empty query elements:

DLP Query by Driver License Number. (Note: The class attribute of DocumentDescriptor will vary, depending on if multiple photos are to be returned or just a single photo.)

```
<?xml version="1.0" encoding="UTF-8"?>
<udps:UDPSXML xmlns:j="http://www.it.ojp.gov/jxdm/3.0"
xmlns:udps="http://webservices.ucjis.utah.gov/udpsxml/release/1.0">
  <udps:DocumentDescriptor type="DLP" class="DriverPhotoSearch"/>
  <udps:Header>
    <udps:Version>3.0</udps:Version>
    <udps:System>
      <j:ID/>
    </udps:System>
    <udps:TransactionID>
      <j:ID/>
    </udps:TransactionID>
    <udps:Submitter>
      <udps:UDPSAgency>
        <j:ID/>
      </udps:UDPSAgency>
      <udps:UDPSAuthentication>
        <udps:UDPSLogon encrypted="true" source=""/>
        <udps:UDPSPassword encrypted="true" source=""/>
      </udps:UDPSAuthentication>
    </udps:Submitter>
    <udps:InitiatingAgency>
      <j:Agency>
        <j:OrganizationORIID>
          <j:ID/>
        </j:OrganizationORIID>
      </j:Agency>
    </udps:InitiatingAgency>
    <udps:Destination>
      <j:Agency>
        <j:OrganizationID>
          <j:ID>UT</j:ID>
        </j:OrganizationID>
      </j:Agency>
    </udps:Destination>
  </udps:Header>
  <udps:TransactionParameters>
    <j:Subject>
      <j:PersonAssignedIDDetails>
        <j:PersonDriverLicenseID>
          <j:ID/>
        </j:IDJurisdictionCode/>
        </j:PersonDriverLicenseID>
      </j:PersonAssignedIDDetails>
    </j:Subject>
  </udps:TransactionParameters>
</udps:UDPSXML>
```


A.1.1 DL Photo Query by DL Number - Sample Data

With sample data:

```
<?xml version="1.0" encoding="UTF-8"?>
<udps:UDPSXML xmlns:j="http://www.it.ojp.gov/jxdm/3.0" xmlns:udps="
http://webservices.ucjis.utah.gov/udpsxml/release/1.0">
  <udps:DocumentDescriptor type="DLP" class="DriverPhotoSearch" authenticator="UCJIS" routingCode="L"/>
  <udps:Header>
    <udps:Version>3.0</udps:Version>
    <udps:System>
      <j:ID>168.178.180.65</j:ID>
    </udps:System>
    <udps:TransactionID>
      <j:ID>12378</j:ID>
    </udps:TransactionID>
    <udps:Submitter>
      <udps:UDPSAgency>
        <j:ID>DPSMIS</j:ID>
      </udps:UDPSAgency>
      <udps:UDPSAuthentication>
        <udps:UDPSLogon encrypted="true" source="TransactionParameters">asdf93Kadsf3</udps:UDPSLogon>
        <udps:UDPSPassword encrypted="true"
source="TransactionParameters">j;3244(sfsdf82</udps:UDPSPassword>
        </udps:UDPSAuthentication>
      </udps:Submitter>
      <udps:InitiatingAgency>
        <j:Agency>
          <j:OrganizationORIID>
            <j:ID>UTTESTORI</j:ID>
          </j:OrganizationORIID>
        </j:Agency>
      </udps:InitiatingAgency>
      <udps:Destinations>
        <udps:Destination>
          <j:Agency>
            <j:OrganizationID>
              <j:ID>UT</j:ID>
            </j:OrganizationID>
          </j:Agency>
        </udps:Destination>
      </udps:Destinations>
    </udps:Header>
    <udps:TransactionParameters>
      <j:Subject>
        <j:PersonAssignedIDDetails>
          <j:PersonDriverLicenseID>
            <j:ID>123456789</j:ID>
            <j:IDJurisdictionCode>UT</j:IDJurisdictionCode>
          </j:PersonDriverLicenseID>
        </j:PersonAssignedIDDetails>
      </j:Subject>
    </udps:TransactionParameters>
  </udps:UDPSXML>
```

```
</udps:TransactionParameters>  
</udps:UDPSXML>
```

A.1.2 DL Photo Response – Error Response

Responses will contain the initial query with the response appended on to it.

Sample response message containing error. Note that DocumentDescriptor attribute “type” has been changed to reflect it is a response:

```
<?xml version="1.0" encoding="UTF-8"?>
<udps:UDPSXML xmlns:j="http://www.it.ojp.gov/jxdm/3.0" xmlns:udps="
http://webservices.ucjis.utah.gov/udpsxml/release/1.0">
  <udps:DocumentDescriptor type="DLPRResponse" class="DriverPhotoSearch" authenticator="UCJIS" routingCode="L"/>
  <udps:Header>
    <udps:Version/>
    <udps:System>
      <j:ID/>
    </udps:System>
    <udps:TransactionID>
      <j:ID/>
    </udps:TransactionID>
    <udps:Submitter>
      <udps:UDPSAgency>
        <j:ID/>
      </udps:UDPSAgency>
      <udps:UDPSAuthentication>
        <udps:UDPSLogon encrypted="" source=""/>
        <udps:UDPSPassword encrypted="" source=""/>
      </udps:UDPSAuthentication>
    </udps:Submitter>
    <udps:InitiatingAgency>
      <j:Agency>
        <j:OrganizationORIID>
          <j:ID/>
        </j:OrganizationORIID>
      </j:Agency>
    </udps:InitiatingAgency>
    <udps:Destinations>
      <udps:Destination>
        <j:Agency>
          <j:OrganizationID>
            <j:ID/>
          </j:OrganizationID>
        </j:Agency>
      </udps:Destination>
    </udps:Destinations>
  </udps:Header>
  <udps:TransactionParameters>
    <j:Subject>
      <j:PersonAssignedIDDetails>
        <j:PersonDriverLicenseID>
          <j:ID/>
        </j:PersonDriverLicenseID>
        <j:IDJurisdictionCode/>
        <j:PersonDriverLicenseID>
          <j:ID/>
        </j:PersonDriverLicenseID>
      </j:PersonAssignedIDDetails>
    </j:Subject>
  </udps:TransactionParameters>
</udps:UDPSXML>
```

```
</j:Subject>
</udps:TransactionParameters>
<udps:Response>
  <udps:ResponseDate/>
  <udps:ResponseTime/>
  <udps:ResponseStatus>
    <!-- If ResponseStatusCode contains an error, the JusticeXML element will be empty.-->
    <udps:ResponseStatusCode/>
    <udps:ResponseStatusDescription/>
  </udps:ResponseStatus>
  <udps:JusticeXML/>
</udps:Response>
</udps:UDPSXML>
```

A.1.2.1 DL Photo Response – Error Response With Data

Sample error response with data:

```
<?xml version="1.0" encoding="UTF-8"?>
<udps:UDPSXML xmlns:j="http://www.it.ojp.gov/jxdm/3.0" xmlns:udps="
http://webservices.ucjis.utah.gov/udpsxml/release/1.0">
  <udps:DocumentDescriptor type="DLPResponse" class="DriverPhotoSearch" authenticator="UCJIS" routingCode="L"/>
  <udps:Header>
    <udps:Version>3.0</udps:Version>
    <udps:System>
      <j:ID>168.178.180.65</j:ID>
    </udps:System>
    <udps:TransactionID>
      <j:ID>12378</j:ID>
    </udps:TransactionID>
    <udps:Submitter>
      <udps:UDPSAgency>
        <j:ID>DPSMIS</j:ID>
      </udps:UDPSAgency>
      <udps:UDPSAuthentication>
        <udps:UDPSLogon encrypted="true" source="TransactionParameters">asdf93Kadsf3</udps:UDPSLogon>
        <udps:UDPSPassword encrypted="true"
source="TransactionParameters">j;3244(sfsdf82</udps:UDPSPassword>
        </udps:UDPSAuthentication>
      </udps:Submitter>
      <udps:InitiatingAgency>
        <j:Agency>
          <j:OrganizationORIID>
            <j:ID>UTTESTORI</j:ID>
          </j:OrganizationORIID>
        </j:Agency>
      </udps:InitiatingAgency>
      <udps:Destinations>
        <udps:Destination>
          <j:Agency>
            <j:OrganizationID>
              <j:ID>UT</j:ID>
            </j:OrganizationID>
          </j:Agency>
        </udps:Destination>
      </udps:Destinations>
    </udps:Header>
    <udps:TransactionParameters>
      <j:Subject>
        <j:PersonAssignedIDDetails>
          <j:PersonDriverLicenseID>
            <j:ID>123456789</j:ID>
            <j:IDJurisdictionCode>UT</j:IDJurisdictionCode>
          </j:PersonDriverLicenseID>
        </j:PersonAssignedIDDetails>
      </j:Subject>
    </udps:TransactionParameters>
  </udps:UDPSXML>
```

```
</udps:TransactionParameters>
<udps:Response>
  <udps:ResponseDate>2004-10-05</udps:ResponseDate>
  <udps:ResponseTime>13:05:23</udps:ResponseTime>
  <udps:ResponseStatus>
    <udps:ResponseStatusCode>535</udps:ResponseStatusCode>
    <udps:ResponseStatusDescription>Database communication error</udps:ResponseStatusDescription>
  </udps:ResponseStatus>
  <udps:JusticeXML/>
</udps:Response>
</udps:UDPSXML>
```

A.1.3 DL Photo Response by DL Number – Not Found

Sample response where DL number is not found:

```
<?xml version="1.0" encoding="UTF-8"?>
<udps:UDPSXML xmlns:j="http://www.it.ojp.gov/jxdm/3.0" xmlns:udps="
http://webservices.ucjis.utah.gov/udpsxml/release/1.0">
  <udps:DocumentDescriptor type="DLPResponse" class="DriverPhotoSearch" authenticator="UCJIS" routingCode="L"/>
  <udps:Header>
    <udps:Version>3.0</udps:Version>
    <udps:System>
      <j:ID>168.178.180.65</j:ID>
    </udps:System>
    <udps:TransactionID>
      <j:ID>12378</j:ID>
    </udps:TransactionID>
    <udps:Submitter>
      <udps:UDPSAgency>
        <j:ID>DPSMIS</j:ID>
      </udps:UDPSAgency>
      <udps:UDPSAuthentication>
        <udps:UDPSLogon encrypted="true" source="TransactionParameters">asdf93Kadsf3</udps:UDPSLogon>
        <udps:UDPSPassword encrypted="true"
source="TransactionParameters">j;3244(sfsdf82</udps:UDPSPassword>
        </udps:UDPSAuthentication>
      </udps:Submitter>
    <udps:InitiatingAgency>
      <j:Agency>
        <j:OrganizationORIID>
          <j:ID>UTTESTORI</j:ID>
        </j:OrganizationORIID>
      </j:Agency>
    </udps:InitiatingAgency>
    <udps:Destinations>
      <udps:Destination>
        <j:Agency>
          <j:OrganizationID>
            <j:ID>UT</j:ID>
          </j:OrganizationID>
        </j:Agency>
      </udps:Destination>
    </udps:Destinations>
  </udps:Header>
  <udps:TransactionParameters>
    <j:Subject>
      <j:PersonAssignedIDDetails>
        <j:PersonDriverLicenseID>
          <j:ID>123456789</j:ID>
          <j:IDJurisdictionCode>UT</j:IDJurisdictionCode>
        </j:PersonDriverLicenseID>
      </j:PersonAssignedIDDetails>
    </j:Subject>
  </udps:TransactionParameters>
</udps:UDPSXML>
```

```
</udps:TransactionParameters>
<udps:Response>
  <udps:ResponseDate>2004-10-05</udps:ResponseDate>
  <udps:ResponseTime>13:05:23</udps:ResponseTime>
  <udps:ResponseStatus>
    <udps:ResponseStatusCode>404</udps:ResponseStatusCode>
    <udps:ResponseStatusDescription>Not Found</udps:ResponseStatusDescription>
  </udps:ResponseStatus>
  <udps:JusticeXML/>
</udps:Response>
</udps:UDPSXML>
```

A.1.4 DL Photo Response – Response Elements

Full XML (all elements) that can be returned, with a single photo and signature. (Note: Depending on type of photo, either and ID card number or a DL number will be returned in DriverAssignedIDDetails):

```
<?xml version="1.0" encoding="UTF-8"?>
<udps:UDPSXML xmlns:j="http://www.it.ojp.gov/jxdm/3.0"
xmlns:udps="http://webservices.ucjis.utah.gov/udpsxml/release/1.0">
<udps:DocumentDescriptor type="DLPResponse" class="DriverPhotoSearch"/>
<udps:Header>
<udps:Version>3.0</udps:Version>
<udps:System>
<j:ID/>
</udps:System>
<udps:TransactionID>
<j:ID/>
</udps:TransactionID>
<udps:Submitter>
<udps:UDPSAgency>
<ID/>
</udps:UDPSAgency>
<udps:UDPSAuthentication>
<udps:UDPSLogon encrypted="true" source=""/>
<udps:UDPSPassword encrypted="true" source=""/>
</udps:UDPSAuthentication>
</udps:Submitter>
<udps:InitiatingAgency>
<j:Agency>
<j:OrganizationORIID>
<j:ID/>
</j:OrganizationORIID>
</j:Agency>
</udps:InitiatingAgency>
<udps:Destination>
<j:Agency>
<j:OrganizationID>
<j:ID>UT</j:ID>
</j:OrganizationID>
</j:Agency>
</udps:Destination>
</udps:Header>
<udps:TransactionParameters>
<j:Subject>
<j:PersonAssignedIDDetails>
<j:PersonDriverLicenseID>
<j:ID/>
<j:IDJurisdictionCode/>
</j:PersonDriverLicenseID>
</j:PersonAssignedIDDetails>
</j:Subject>
</udps:TransactionParameters>
<udps:Response>
<udps:ResponseDate/>
<udps:ResponseTime/>
```

```

<udps:ResponseStatus>
  <udps:ResponseStatusCode>200</udps:ResponseStatusCode>
  <udps:ResponseStatusDescription>OK</udps:ResponseStatusDescription>
</udps:ResponseStatus>
<udps:JusticeXML>
  <j:Person>
    <j:PersonName>
      <j:PersonGivenName/>
      <j:PersonMiddleName personNameInitialIndicator=""/>
      <j:PersonSurName/>
      <j:PersonSuffixName/>
    </j:PersonName>
    <j:Residence>
      <j:LocationAddress lastUpdatedDate="">
        <j:LocationStreet>
          <j:StreetFullText/>
        </j:LocationStreet>
        <j:LocationCityName/>
        <udps:LocationCityCode/>
        <j:LocationCountyCode/>
        <j:LocationStateCode.ncicRES/>
        <j:LocationPostalCodeID>
          <j:ID/>
        </j:LocationPostalCodeID>
        <j:LocationPostalCodeExtensionID>
          <j:ID/>
        </j:LocationPostalCodeExtensionID>
      </j:LocationAddress>
    </j:Residence>
    <j:PersonBirthDate/>
    <j:PersonPhysicalDetails>
      <j:PersonHeightMeasure>
        <!-- NCIC Standards -->
      </j:PersonHeightMeasure>
      <j:PersonWeightMeasure/>
      <j:PersonEyeColorCode>
        <!-- NCIC Code -->
      </j:PersonEyeColorCode>
      <j:PersonHairColorCode>
        <!-- NCIC Code -->
      </j:PersonHairColorCode>
      <j:PersonSexCode>
        <!-- M, F, U -->
      </j:PersonSexCode>
    </j:PersonPhysicalDetails>
    <j:PersonAssignedIDDetails>
      <j:PersonOtherID>
        <j:ID/>
        <j:IDTypeText>
          <!-- ID Card -->
        </j:IDTypeText>
        <j:IDEffectiveDate/>
        <j:IDExpirationDate/>
      </j:PersonOtherID>
      <j:PersonDriverLicenseID>
        <j:ID/>
      </j:PersonDriverLicenseID>
    </j:PersonAssignedIDDetails>
    <j:PersonBiometricDetails>

```

```
<udps:PersonDigitalImagesAvailableQuantity/>
<udps:PersonDigitalImagesReturnedQuantity/>
<j:PersonDigitalImage>
  <j:BinaryObject.Base64/>
  <j:BinaryFormatText>
    <!--A format of a binary object, e.g., "image/jpeg"-->
  </j:BinaryFormatText>
  <j:BinarySizeValue>
    <!--A size of a binary object in kilobytes.-->
  </j:BinarySizeValue>
  <j:BinaryCaptureDate/>
</j:PersonDigitalImage>
<j:PersonDigitizedSignatureImage>
  <j:BinaryObject.Base64/>
  <j:BinaryFormatText>
    <!--A format of a binary object, e.g., "image/jpeg".-->
  </j:BinaryFormatText>
  <j:BinarySizeValue>
    <!--A size of a binary object in kilobytes.-->
  </j:BinarySizeValue>
  <j:BinaryCaptureDate/>
</j:PersonDigitizedSignatureImage>
</j:PersonBiometricDetails>
</j:Person>
</udps:JusticeXML>
</udps:Response>
</udps:UDPSXML>
```

A.2 DL Photo Response – Multiple Photos

Good response listing all elements, multiple photos (2) example:

Note that the class attribute of DocumentDescriptor = DriverMultiplePhotoSearch. Original request must specify this value.

```
<?xml version="1.0" encoding="UTF-8"?>
<udps:UDPSXML xmlns:j="http://www.it.ojp.gov/jxdm/3.0"
xmlns:udps="http://webservices.ucjis.utah.gov/udpsxml/release/1.0">
<udps:DocumentDescriptor type="DLPResponse" class="DriverMultiplePhotoSearch"/>
<udps:Header>
<udps:Version>3.0</udps:Version>
<udps:System>
<j:ID/>
</udps:System>
<udps:TransactionID>
<j:ID/>
</udps:TransactionID>
<udps:Submitter>
<udps:UDPSAgency>
<ID/>
</udps:UDPSAgency>
<udps:UDPSAuthentication>
<udps:UDPSLogon encrypted="true" source=""/>
<udps:UDPSPassword encrypted="true" source=""/>
</udps:UDPSAuthentication>
</udps:Submitter>
<udps:InitiatingAgency>
<j:Agency>
<j:OrganizationORIID>
<j:ID/>
</j:OrganizationORIID>
</j:Agency>
</udps:InitiatingAgency>
<udps:Destination>
<j:Agency>
<j:OrganizationID>
<j:ID>UT</j:ID>
</j:OrganizationID>
</j:Agency>
</udps:Destination>
</udps:Header>
<udps:TransactionParameters>
<j:Subject>
<j:PersonAssignedIDDetails>
<j:PersonDriverLicenseID>
<j:ID/>
<j:IDJurisdictionCode/>
</j:PersonDriverLicenseID>
</j:PersonAssignedIDDetails>
</j:Subject>
</udps:TransactionParameters>
```

```

<udps:Response>
  <udps:ResponseDate/>
  <udps:ResponseTime/>
  <udps:ResponseStatus>
    <udps:ResponseStatusCode>200</udps:ResponseStatusCode>
    <udps:ResponseStatusDescription>OK</udps:ResponseStatusDescription>
  </udps:ResponseStatus>
  <udps:JusticeXML>
    <j:Person>
      <j:PersonName>
        <j:PersonGivenName/>
        <j:PersonMiddleName personNameInitialIndicator=""/>
        <j:PersonSurName/>
        <j:PersonSuffixName/>
      </j:PersonName>
      <j:Residence>
        <j:LocationAddress lastUpdatedDate="">
          <j:LocationStreet>
            <j:StreetFullText/>
          </j:LocationStreet>
          <j:LocationCityName/>
          <udps:LocationCityCode/>
          <j:LocationCountyCode/>
          <j:LocationStateCode.ncicRES/>
          <j:LocationPostalCodeID>
            <j:ID/>
          </j:LocationPostalCodeID>
          <j:LocationPostalCodeExtensionID>
            <j:ID/>
          </j:LocationPostalCodeExtensionID>
        </j:LocationAddress>
      </j:Residence>
      <j:PersonBirthDate/>
      <j:PersonPhysicalDetails>
        <j:PersonHeightMeasure>
          <!-- NCIC Standards-->
        </j:PersonHeightMeasure>
        <j:PersonWeightMeasure/>
        <j:PersonEyeColorCode>
          <!-- NCIC Code-->
        </j:PersonEyeColorCode>
        <j:PersonHairColorCode>
          <!-- NCIC Code-->
        </j:PersonHairColorCode>
        <j:PersonSexCode>
          <!-- M, F, U-->
        </j:PersonSexCode>
      </j:PersonPhysicalDetails>
      <j:PersonAssignedIDDetails>
        <j:PersonOtherID>
          <j:ID/>
          <j:IDTypeText>
            <!-- ID Card-->
          </j:IDTypeText>
          <j:IDEffectiveDate/>
          <j:IDExpirationDate/>
        </j:PersonOtherID>
        <j:PersonDriverLicenseID>
          <j:ID/>
        </j:PersonDriverLicenseID>
      </j:PersonAssignedIDDetails>
    </j:Person>
  </udps:JusticeXML>
</udps:Response>

```

```

</j:PersonDriverLicenseID>
</j:PersonAssignedIDDetails>
</j:PersonBiometricDetails>
<udps:PersonDigitalImagesAvailableQuantity/>
<udps:PersonDigitalImagesReturnedQuantity/>
<j:PersonDigitalImage>
  <j:BinaryObject.Base64/>
  <j:BinaryFormatText>
    <!--A format of a binary object, e.g., "image/jpeg"-->
  </j:BinaryFormatText>
  <j:BinarySizeValue>
    <!--A size of a binary object in kilobytes.-->
  </j:BinarySizeValue>
  <j:BinaryCaptureDate/>
</j:PersonDigitalImage>
<j:PersonDigitizedSignatureImage>
  <j:BinaryObject.Base64/>
  <j:BinaryFormatText>
    <!--A format of a binary object, e.g., "image/jpeg".-->
  </j:BinaryFormatText>
  <j:BinarySizeValue>
    <!--A size of a binary object in kilobytes.-->
  </j:BinarySizeValue>
  <j:BinaryCaptureDate/>
</j:PersonDigitizedSignatureImage>
<j:PersonDigitalImage>
  <j:BinaryObject.Base64/>
  <j:BinaryFormatText>
    <!--A format of a binary object, e.g., "image/jpeg"-->
  </j:BinaryFormatText>
  <j:BinarySizeValue>
    <!--A size of a binary object in kilobytes.-->
  </j:BinarySizeValue>
  <j:BinaryCaptureDate/>
</j:PersonDigitalImage>
<j:PersonDigitizedSignatureImage>
  <j:BinaryObject.Base64/>
  <j:BinaryFormatText>
    <!--A format of a binary object, e.g., "image/jpeg".-->
  </j:BinaryFormatText>
  <j:BinarySizeValue>
    <!--A size of a binary object in kilobytes.-->
  </j:BinarySizeValue>
  <j:BinaryCaptureDate/>
</j:PersonDigitizedSignatureImage>
</j:PersonBiometricDetails>
</j:Person>
</udps:JusticeXML>
</udps:Response>
</udps:UDPSXML>

```

Glossary of Terms

The acronyms or concepts that could be used within this document are the following:

Acronym	Description
API	Acronym for "Application Program Interface"
Application	Collection of integrated software units, which accomplish a major function. An application could have more than one software unit.
BCI	Acronym for "Bureau of Criminal Identification"
CAD	Computer Aided Dispatch
CS	Cold Standby. Weakest form of High Availability: replicas are entirely initialized subsequent to failures.
DHCP	Acronym for "Dynamic Host Configuration Protocol". A technology for dynamically assigning and maintaining leases on IP addresses to hosts on a subnet.
DMZ	De-Militarized Zone. A segment of a LAN that is granted access to external hosts, typically considered quite insecure. A DMZ is typically segregated from "protected" hosts via firewall.
DOM	Acronym for "Document Object Model" a tree-based parsing specification for XML
DPS	Acronym for "Department Of Public Safety"
Firewall	A device for segregating host resources on a LAN between trusted and un-trusted access.
HA	High Availability. Automatic masking of unplanned outages: Can be Cold, Warm or Hot Standby.
HTML	Acronym for "Hyper-Text Markup Language"
HTTP	Acronym for "Hyper-Text Transfer Protocol"
IM	Acronym for "Instant Messaging"
IP Address	A dotted quad numerical designation for a host, i.e., computer, within a TCP/IP network, e.g., 192.168.1.1

JAX	Acronym for "Java API for XML"
SAX	Acronym for "Simple API for XML" an event-driven parsing specification for XML
JAXB	Acronym for "Java API for XML Binding"
JAXM	Acronym for "Java API for XML Messaging"
JAXP	Acronym for "Java API for XML Processing"
JAX-RPC	Acronym for "Java API for XML Remote Procedure Calls"
LAN	Acronym for "Local Area Network"
Load Balancing	The process by which requests / users requests are sent to the server / printer with the least load and away from servers too busy to handle additional requests.
MM	Manual Masking. A "pseudo" (and weak) form of HA, which has replication built into the system, but requires manual detection and recovery action, and so does not satisfy the HA condition of automatic masking.
MOM	Acronym for "Message-Oriented Middleware"
NAT	Acronym for "Network Address Translation". A technology that supports routing of IP addresses across disparate subnets in support of indirect paths and often DHCP.
NCIC	FBI's National Crime Information Center
NIC	Acronym for "Network Interface Card"
NLETS	National Law Enforcement Telecommunications System
ORI	Acronym for "Originating Agency Identifier". This identifier is assigned by the FBI to criminal justice agencies.
PDC	Acronym for "Primary Data Center"
RDBMS	Acronym for "Relational Database Management System"
RMS	Acronym for "Record Management System:
Servlet	A persistent process designed to respond to HTTP requests on the back-end of a Servlet-Enabled HTTP server. Servlets run within a Servlet Container such as Apache.org's Tomcat.

SOAP	<p>Formerly an acronym for "Simple Object Access Protocol"</p> <p>SOAP version 1.2 provides the definition of an XML document which can be used for exchanging structured and typed information between peers in a decentralized, distributed environment. It is fundamentally a stateless, one-way message exchange paradigm, but applications can create more complex interaction patterns (e.g., request/response, request/multiple responses, etc.) by combining such one-way exchanges with features provided by an underlying transport protocol and/or application-specific information. SOAP is silent on the semantics of any application-specific data it conveys, as it is on issues such as the routing of SOAP messages, reliable data transfer, firewall traversal, etc. However, SOAP provides the framework by which application-specific information may be conveyed in an extensible manner. Also, SOAP provides a full description of the expected actions taken by a SOAP processor on receiving a SOAP message</p>
UCJIS	Acronym for "Utah Criminal Justice Information System"
UDC	Acronym for "Utah Department of Corrections"
WAN	Acronym for "Wide Area Network"
XML	Acronym for "Extensible Markup Language"
XSL	Acronym for "Extensible Stylesheet Language"
XSLT	Acronym for "Extensible Stylesheet Language Transformations"

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